

IN THE CLAIMS

For the convenience of the Examiner, all pending claims of the present Application are shown below whether or not an amendment has been made.

Please amend the claims as follows.

1. **(Canceled)**
2. **(Canceled)**
3. **(Canceled)**
4. **(Canceled)**
5. **(Canceled)**
6. **(Canceled)**
7. **(Canceled)**
8. **(Canceled)**
9. **(Canceled)**
10. **(Canceled)**
11. **(Canceled)**
12. **(Canceled)**

13. **(Previously presented)** A method comprising:
defining a protocol stack based on a plurality of states, events and actions, said events and actions defining transitions between each of said states;
partitioning said plurality of states, events and action between hardware and software, based on a minimum defined performance criterion for said protocol stack; and
moving said protocol stack from a first host environment to a second host environment;
wherein said states, events and actions are repartitioned between hardware and software in said second host environment based on said second host environment's host processor capabilities.
14. **(Original)** The method as in Claim 13 wherein said states, events and actions are configured using a look-up table.
15. **(Original)** The method as in Claim 13 wherein transitions between states requiring a relatively higher response time are partitioned in hardware.
16. **(Original)** The method as in Claim 13 wherein said protocol stack is a time-division duplexing ("TDD") wireless protocol.
17. **(Original)** The method as in Claim 16 wherein said TDD wireless protocol is a Bluetooth protocol.
18. **(Canceled)**
19. **(Original)** The method as in Claim 13 wherein said hardware is an application-specific integrated circuit and said software is executed in a host processor environment.

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

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27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Canceled)

32. (New) A system comprising:

a protocol stack operable to define a plurality of states, events, and actions, the events and actions defining transitions between each of said states, wherein the protocol stack is associated with a minimum defined performance criterion;

a first host environment comprising a first set of hardware and a first set of software, wherein the first set of software and the first set of hardware are collectively operable to transition the first host environment between the states in accordance with a first partition that partitions the plurality of states, event, and actions between the first set of software and the first set of hardware based on the minimum defined performance criterion; and

a second host environment comprising a second set of hardware and a second set of software, wherein the second set of software and the second set of hardware are collectively operable to transition the second host environment between the states in accordance with a second partition that partitions the plurality of states, event, and actions between the second set of software and the second set of hardware based on the minimum defined performance criterion.

33. (New) The system of Claim 32, wherein the first set of software and the first set of hardware are collectively operable to transition the first host environment between the states based on a first look-up table, and wherein the second set of software and the second set of hardware are collectively operable to transition the second host environment between the states based on a second look-up table.

34. (New) The system of Claim 32, wherein:

the first partition partitions at least a portion of the states between the first set of software and the first set of hardware based on a response time associated with a transition between those particular states; and

the second partition partitions at least a portion of the states between the second set of software and the second set of hardware based on a response time associated with a transition between those particular states.

35. (New) The system of Claim 32, wherein the protocol stack comprises a time-division duplexing (“TDD”) wireless protocol.

36. (New) The system of Claim 35, wherein the TDD wireless protocol comprises a Bluetooth protocol.

37. (New) The system of Claim 32, wherein at least one of the first set of hardware and the second set of hardware comprises an application-specific integrated circuit.